

IN THE CLAIMS:

Claim 1. (Currently Amended) A peelable foam coating composition, comprising a blend of:

an aqueous polyurethane dispersion resin in an effective amount having [of] at least 35 percent by weight solids contents [of the total weight percent of the composition];

an effective amount of a release agent in an amount of from between 0.1 and 5 percent of the total weight percent of the composition, said release agent being selected from the group consisting of propylene glycol, soy lecithin, organosilicone fluids, nonylphenoxypoly-(ethyleneoxy)ethanol, oleic acid polyethylene glycol monostearate, petrolatum, sodium alkyl benzene, sulfonates, siloxanes, polyglycols, silicone surfactants, polyvinyl alcohol resins, paraffin and polymeric waxes, and synthetic waxes including low molecular weight polyethylene waxes, and combinations thereof;

an effective amount of said propellant up to 25 percent by weight;

a surfactant or profoamer in an effective amount of up to 5 percent by weight selected from the group consisting of alkanolamides, silicone glycols, alkyl benzene sulfonates, alcohol ethoxylated, phosphate esters, oleates, betaines, alkylphenol ether sulfates, alkylaryl sulfonates, fatty acids, soy lecithin, anionic, cationic, amphoteric, or nonionic surfactants, and combinations thereof.

Claim 2. The peelable coating of Claim 1 including a dye or pigment in an effective amount of from .01 to 10.0 percent by weight.

Claim 3. The peelable coating of Claim 1 including a

thickening agent in an effective amount of from 0.01 to 5.0 percent by weight.

Claim 4. The peelable coating of Claim 1 including a profoamer in an effective amount of from 0.01 to 1.0 percent by weight.

Claim 5. The peelable coating of claim 1, including an effective amount of a plasticizer.

Claim 6. The peelable coating of claim 1 including an effective amount of an antiskinning agent.

Claim 7. The peelable coating of claim 1 including an effective amount of an antioxidant.

Claim 8. The peelable coating of claim 1 including an additional amount of a carrier for dilution selected from the group consisting of an aqueous carrier, a alcohol solvent carrier, or combination thereof.

Claim 9. (Currently amended) A foamy peelable coating composition, comprising a blend of :

an aqueous polyurethane dispersion resin in an effective amount of at least 35 percent by weight solids of the total weight percent of the composition;

an effective amount of a release agent in an amount of from between 0.1 and 5 percent of the total weight percent of the composition, said release agent being selected from the group consisting of soy lecithin, organosilicone fluids, nonylphenoxypoly-(ethyleneoxy)ethanol, oleic acid polyethylene glycol monostearate, petrolatum, sodium alkyl benzene, sulfonates, siloxanes, polyglycols, silicone surfactants, polyvinyl alcohol resins,

paraffin and polymeric waxes, and synthetic waxes including low molecular weight polyethylene waxes, and combinations thereof;

at least 0.1 percent by weight of a plasticizer selected from the group consisting essentially of a polyvinyl alcohol, a cellulose, a polyglycol, a phthalate, an adipate, a sebacate ester, a glyceryl tri(acetoxystearate), an epoxidized soybean oil, an epoxidized linseed oil, an n-butyl benzene sulfonamide, an aliphatic polyurethane, a polyester glutarate, a triethylene glycol, a caprate/caprylate, a long chain alkyl ether, a dialkyl diester, a glutarate, an epoxy plasticizer, a polyester based on adipic acid, a hydrogenated dimer acid, a distilled dimer acid, a polymerized fatty acid trimer, an ethyl ester of hydrolyzed collagen, an isostearic acid, a sorbian oleate, a cocoyl hydrolyzed keratin, a lanolin oil, a dialkyl adipate, an alkylaryl phosphate, an alkyl diaryl phosphate, a modified triaryl phosphate, a triaryl phosphate, a butyl benzyl phthalate, an octyl benzyl phthalate, an alkyl benzyl phthalate, a dibutoxy ethoxy ethyl adipate, a 2-ethylhexyldiphenyl phosphate, a dibutoxy ethoxy ethyl formyl, a diisopropyl adipate, a diisopropyl sebacate, an isodecyl oleate, a neopentyl glycol dicaprate, a neopentyl glycol diotanoate, an isohexyl neopentanoate, an ethoxylated lanolin, a polyoxyethylene cholesterol, a propoxylated (2 moles) lanolin alcohols, a propoxylated lanoline alcohol, an acetylated polyoxyethylene derivative of lanoline, a dimethylpolysiloxane, a glycerine, a polyethylene glycol, a dibutyl phthalate, a 2,2,4-trimethyl-1,3-pentanediol monoisobutyrate, and a diisononyl phthalate; and

a propellant in an amount of up to 20.0 percent of the total weight percent of the composition.

Claim 10. The peelable coating of Claim 9 including a dye or pigment in an effective amount of from 0.01 to 10.0 percent by weight.

Claim 11. The peelable coating of Claim 9 including a

thickening agent in an effective amount of from 0.01 to 5.0 percent by weight.

Claim 12. The peelable coating of Claim 9 including a surfactant in an effective amount of from 0.01 to 10.0 percent by weight.

Claim 13. The peelable coating of Claim 9 including an anti-skinning agent in an effective amount of from 0.01 to 1.0 percent by weight.

Claim 14. The peelable coating of claim 9 including an additional amount of a carrier for dilution selected from the group consisting of an aqueous carrier, a alcohol solvent carrier, or combination thereof.

Claim 15. (Currently Amended) A blended peelable foam coating composition comprising:

- an aqueous polyurethane dispersion resin in an effective amount of at least 35 percent by weight solids of the total weight percent of the composition;

- a pigment in an amount of up to 10 percent by weight;

- a release agent in an amount of from between 0.1 and 5 percent of the total weight percent of the composition, said release agent being selected from the group consisting of soy lecithin, organosilicone fluids, nonylphenoxypoly-(ethyleneoxy)ethanol, oleic acid polyethylene glycol monostearate, petrolatum, sodium alkyl benzene, sulfonates, siloxanes, polyglycols, silicone surfactants, polyvinyl alcohol resins, paraffin and polymeric waxes, and synthetic waxes including low molecular weight polyethylene waxes, and combinations thereof;

- a propellant in an effective amount of up to 25 percent selected from the group consisting of air, a carbon dioxide,

nitrogen, and a hydrocarbon propellant;

a plasticizer in an amount of up to 20 percent by weight selected from the group consisting essentially of a polyvinyl alcohol, a cellulose, a polyglycol, a phthalate, an adipate, a sebacate ester, a glyceryl tri(acetoxystearate), an epoxidized soybean oil, an epoxidized linseed oil, an n-butyl benzene sulfonamide, an aliphatic polyurethane, a polyester glutarate, a triethylene glycol, a caprate/caprylate, a long chain alkyl ether, a dialkyl diester, a glutarate, an epoxy plasticizer, a polyester based on adipic acid, a hydrogenated dimer acid, a distilled dimer acid, a polymerized fatty acid trimer, an ethyl ester of hydrolyzed collagen, an isostearic acid, a sorbian oleate, a cocoyl hydrolyzed keratin, a lanolin oil, a dialkyl adipate, an alkylaryl phosphate, an alkyl diaryl phosphate, a modified triaryl phosphate, a triaryl phosphate, a butyl benzyl phthalate, an octyl benzyl phthalate, an alkyl benzyl phthalate, a dibutoxy ethoxy ethyl adipate, a 2-ethylhexyldiphenyl phosphate, a dibutoxy ethoxy ethyl formyl, a diisopropyl adipate, a diisopropyl sebacate, an isodecyl oleate, a neopentyl glycol dicaprate, a neopentyl glycol diotanoate, an isohexyl neopentanoate, an ethoxylated lanolin, a polyoxyethylene cholesterol, a propoxylated (2 moles) lanolin alcohols, a propoxylated lanoline alcohol, an acetylated polyoxyethylene derivative of lanoline, a dimethylpolysiloxane, a glycerine, a polyethylene glycol, a dibutyl phthalate, a 2,2,4-trimethyl-1,3-pentanediol monoisobutyrate, and a diisononyl phthalate.

Claim 16. A blended peelable coating composition, comprising:  
an aqueous polyurethane dispersion resin in an effective amount of at least 35 percent by weight solids of the total weight percent of the composition; and

an effective amount of a release agent in an amount of from between 0.1 and 5 percent of the total weight percent of the composition, said release agent being selected from the group consisting of soy lecithin, organosilicone fluids, nonylphenoxypoly-

(ethyleneoxy)ethanol, oleic acid polyethylene glycol monostearate, petrolatum, sodium alkyl benzene, sulfonates, siloxanes, polyglycols, silicone surfactants, polyvinyl alcohol resins, paraffin and polymeric waxes, and synthetic waxes including low molecular weight polyethylene waxes, and combinations thereof.

Claim 17. (Currently Amended) The peelable composition of claim 16, wherein said aqueous polyurethane dispersion resin contains from [20] 35 to 40 percent by weight solid latex particles and from 60 to 80 percent by weight water.

Claim 18. (Currently amended) The peelable composition of claim 16 wherein said aqueous polyurethane dispersion resin [contains up to 30 percent by weight solid latex particles.] at least 35 percent by weight solids of the total weight percent of the composition.

Claim 19. The peelable composition of claim 16, wherein said effective amount of a release agent is from 0.1 to 5.0 percent by weight.

Claim 20. The peelable composition of claim 16, wherein said release agent is soy lecithin.

Claim 21. (Cancel) The peelable composition of claim 16, wherein said release agent is soy lecithin.

Claim 22. The peelable composition of claim 16, wherein said an effective amount of a said release agent is up to 5.0 percent by weight.

Claim 23. The peelable composition of claim 16 including an effective amount of a propellant.

Claim 24. The peelable composition of claim 23 wherein an effective amount of said propellant up to 25 percent by weight.

Claim 25. The peelable composition of claim 23 wherein an effective amount of said hydrocarbon propellant is from 5.0 to 20.0 percent by weight.

Claim 26. The peelable composition of claim 16 including an effective amount of a solvent selected from the group consisting of water, ethyl alcohol, methyl alcohol, isopropyl alcohol, butyl alcohol, and combinations thereof for diluting said aqueous polyurethane dispersion blend.

Claim 27. The peelable composition of claim 26 wherein said effective amount of said solvent is up to 10 percent by weight in addition to said water of said aqueous polyurethane dispersion.

Claim 28. A foamy peelable coating composition blend, comprising:

an aqueous polyurethane dispersion resin in an effective amount of from 35 to 98 percent by weight solids of the total weight percent of the composition; and

a release agent in an amount of from between 0.1 and 5 percent of the total weight percent of the composition, said release agent being selected from the group consisting of soy lecithin, organosilicone fluids, nonylphenoxypoly-(ethyleneoxy)ethanol, oleic acid polyethylene glycol monostearate, petrolatum, sodium alkyl benzene, sulfonates, siloxanes, polyglycols, silicone surfactants, polyvinyl alcohol resins, paraffin and polymeric waxes, and synthetic waxes including low molecular weight polyethylene waxes, and combinations thereof; and

a propellant in an amount of up to 25.0 percent of the total

weight percent of the composition.

Claim 29. The peelable composition of claim 28, wherein said peelable composition contains at least 40 percent by weight solid polyurethane latex resin particles and the remainder water.

Claim 30. The peelable composition of claim 28, wherein said peelable composition contains a polyurethane dispersion resin in an amount of from between 60 to 99 percent by weight.

Claim 31. The peelable composition of claim 28 wherein an effective amount of said propellant up to 25 percent by weight.

Claim 32. The peelable composition of claim 28 wherein an effective amount of said propellant is from 5.0 to 20.0 percent by weight.

Claim 33. The peelable composition of claim 28 wherein said propellant is selected from the group consisting of air and a hydrocarbon propellant.

Claim 34. The peelable composition of claim 28 wherein said hydrocarbon propellant is selected from the group consisting of A-31, A-46, A-70, A-108, propane/isobutane blends.

Claim 35. The peelable composition of claim 28 including an effective amount of a release agent of up to 10 percent by weight.

Claim 36. The peelable composition of claim 28, wherein said effective amount of a release agent is from 0.1 to 5.0 percent by weight.



Claim 37. The peelable composition of claim 28, wherein said release agent is soy lecithin.

Claim 38. The peelable composition of claim 28, wherein said release agent functions as a profoamer.

Claim 39. The peelable composition of claim 28, including an effective amount of a surfactant.

Claim 40. The peelable composition of claim 39, wherein said surfactant is selected from the group consisting of alkanolamides, silicone glycols, alkyl benzene sulfonates, alcohol ethoxylated, phosphate esters, betaines, alkylphenol ether sulfates, alkylaryl sulfonates, fatty acids, soy lecithin, and combinations thereof.

Claim 41. The peelable composition of claim 39 wherein said effective amount of said surfactant is up to 10 percent by weight.

Claim 42. The peelable composition of claim 39, wherein said surfactant is a nonionic surfactant.

Claim 43. The peelable composition of claim 28 including an effective amount of a solvent.

Claim 44. The peelable composition of claim 28 wherein said effective amount of said solvent is up to 10 percent by weight in addition to the water contained in said aqueous polyurethane dispersion.

Claim 45. The peelable composition of claim 28 including an effective amount of a polyglycol.

Claim 46. The peelable composition of claim 45 wherein said effective amount of a polyglycol is from between 0.1 and 20.0 percent by weight.

Claim 47. The peelable composition of claim 45 wherein said polyglycol is polypropylene glycol.

Claim 48. The method of applying the peelable composition of claim 16 to a substrate forming a film of from 20 to 40 mils in thickness.

Claim 49. The method of applying the peelable composition of claim 16 to a substrate forming a film having a thickness of up to 80 mils in thickness.

Claim 50. The method of applying the peelable composition of claim 28 to a substrate forming a foam type peelable coating having a thickness ranging from 0.1 to 1.0 inches in thickness.

Claim 51 (new) The peelable composition of claim 16, including a plasticizer in an amount of up to 20 percent by weight selected from the group consisting essentially of a polyvinyl alcohol, a cellulose, a polyglycol, a phthalate, an adipate, a sebacate ester, a glyceryl tri(acetoxystearate), an epoxidized soybean oil, an epoxidized linseed oil, an n-butyl benzene sulfonamide, an aliphatic polyurethane, a polyester glutarate, a triethylene glycol, a caprate/caprylate, a long chain alkyl ether, a dialkyl diester, a glutarate, an epoxy plasticizer, a polyester based on adipic acid, a hydrogenated dimer acid, a distilled dimer acid, a polymerized fatty acid trimer, an ethyl ester of hydrolyzed collagen, an isostearic acid, a sorbian oleate, a cocoyl hydrolyzed keratin, a lanolin oil, a dialkyl adipate, an alkylaryl phosphate, an alkyl diaryl phosphate, a modified triaryl phosphate, a triaryl phosphate,

a butyl benzyl phthalate, an octyl benzyl phthalate, an alkyl benzyl phthalate, a dibutoxy ethoxy ethyl adipate, a 2-ethylhexyldiphenyl phosphate, a dibutoxy ethoxy ethyl formyl, a diisopropyl adipate, a diisopropyl sebacate, an isodecyl oleate, a neopentyl glycol dicaprate, a neopenty glycol diotanoate, an isohexyl neopentanoate, an ethoxylated lanolin, a polyoxyethylene cholesterol, a propoxylated (2 moles) lanolin alcohols, a propoxylated lanoline alcohol, an acetylated polyoxyethylene derivative of lanoline, a dimethylpolysiloxane, a glycerine, a polyethylene glycol, a dibutyl phthalate, a 2,2,4-trimethyl-1,3-pentanediol monoisobutyrate, and a diisononyl phthalate.